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### NOTICE OF ALLOWANCE AND FEE(S) DUE

25944 7590 04/09/2008

OLIFF & BERRIDGE, PLC P.O. BOX 320850

ALEXANDRIA. VA 22320-4850

EXAMINER REFAL RAMSEY

ART UNIT PAPER NUMBER

3627 DATE MAILED: 04/09/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 09820,761
 03/30/2001
 Akihiro Furukawa
 109133
 3856

TITLE OF INVENTION: DEVICE AND METHOD FOR USING MAC ADDRESS OF NETWORKED DEVICES TO SET IP ADDRESSES

 APPLN TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonconvisional
 NO
 \$1440
 \$500
 \$0
 \$1240
 07/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This<br>appropriate. All further<br>indicated unless correcte<br>maintenance fee notifical   | form should be used I<br>correspondence including<br>d below or directed off<br>tions.   | or tran                                      | smitting the ISSU<br>Patent, advance of<br>in Block 1, by (a   |   |  |  |   | nould be completed where<br>correspondence address as<br>rate "FEE ADDRESS" for   |
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| CURRENT CORRESPOND   | any change of address)   | Noi<br>Fee<br>pap<br>bay                     | Note: A certificate of mailing can only be used for domestic mailings of the<br>Fee(s) Transmittal. This certificate cannot be used for any other accompanying<br>papers. Each additional paper, such as an assignment or formal drawing, must<br>have its own certificate of mailing or transmission. |   |  |  |   |   |
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| APPLICATION NO.  | FILING DATE  |  | FIRST NAMED INVENTO  |   | ATTORNEY DOCKET NO.  |  | CONFIRMATION NO.  |   |
| 09/820,761   | 09/820,761 03/30/2001  |  | Akihiro Furukawa   |   | 109133   |  | 3856  |   |
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| nonprovisional   | NO   |  | \$1440   | \$300   | \$0  |  | \$1740  | 07/09/2008  |
| EXAM   | INER   |  | ART UNIT   | CLASS-SUBCLASS  | ]  |  |   |   |
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| "Fee Address" ind<br>PTO/SB/47; Rev 03-0<br>Number is required.  3. ASSIGNEE NAME A  | ondence address (or Cha<br>3/122) attached.<br>ication (or "Fee Address<br>2 or more recent) attack<br>ND RESIDENCE DAT.<br>ess an assignee is ident<br>h in 37 CFR 3.11. Comp | nge of " Indicated, Use                      | Correspondence ation form e of a Customer  | 2. For printing on the j (1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be the PATENT (print or ty data will appear on the f a substitute for filing an (B) RESIDENCE: (CIT) | o 3 registered pater<br>vely,<br>le firm (having as a<br>agent) and the nam<br>meys or agents. If<br>printed.<br>pe) | memb<br>es of u<br>no nam                        | p to p to get is 3  | ocument has been filed for  |
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|  | s SMALL ENTITY state   | ıs. See                                      | 37 CFR 1.27.   | ☐ b. Applicant is no lor  |  |  |   |   |
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| Authorized Signature   |  |  |  |   | Date   |  |   |   |
| Typed or printed name  |  |  |  |   | -  |  |   |   |
| This collection of inform<br>an application. Confident<br>submitting the completes<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | ation is required by 37 C<br>tiality is governed by 35<br>I application form to the<br>ons for reducing this bu<br>irginia 22313-1450. DO<br>13-1450.                          | FR 1.3<br>U.S.C<br>USPT<br>rden, sl<br>O NOT | 11. The informatic<br>. 122 and 37 CFR<br>O. Time will vary<br>hould be sent to th<br>SEND FEES OR   | on is required to obtain or<br>1.14. This collection is es<br>depending upon the indi<br>e Chief Information Offic<br>COMPLETED FORMS T   | retain a benefit by<br>timated to take 12<br>vidual case. Any co<br>er, U.S. Patent and<br>O THIS ADDRES:            | the pub<br>minute:<br>omment<br>Trader<br>S. SEN | lic which is to file (and<br>to complete, includin<br>is on the amount of tir<br>nark Office, U.S. Depa<br>D TO: Commissioner | by the USPTO to process)<br>g gathering, preparing, and<br>ne you require to complete<br>artment of Commerce, P.O.<br>for Patents, P.O. Box 1450, |

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#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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| APPLICATION NO. | FILING DATE    | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|----------------|----------------------|---------------------|------------------|
| 09/820,761      | 03/30/2001     | Akihiro Furukawa     | 109133              | 3856             |
| 25944 7         | 590 04/09/2008 |                      | EXAM                | IINER            |
| OLIFF & BERR    | IDGE, PLC      | REFAI, RAMSEY        |                     |                  |
| P.O. BOX 320850 |                | ART UNIT             | PAPER NUMBER        |                  |
| ALEXANDRIA, Y   | /A 22320-4850  | 3627                 |                     |                  |

DATE MAILED: 04/09/2008

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 471 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 471 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

| Application No. | Applicant(s)    |
|-----------------|-----------------|
| , 16 h          | , (P)(a)        |
|                 |                 |
| 09/820,761      | FURUKAWA ET AL. |
| Examiner        | Art Unit        |
| Examinor        | Alt olik        |
|                 |                 |
| Ramsev Refai    | 3627            |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 12/03/07.
- 2. The allowed claim(s) is/are 2,7,20 and 21.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some\* c) 

    None of the:
    - 1. 

      Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
    - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment reparding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. M Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 10/26/07
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_\_.
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other \_\_\_\_\_.

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#### Allowance

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Aaron Webb on March 7, 2008. After the Examiner's Amendment below, claims 18-19 are canceled and claims 2, 7,

# 20, 21 are allowed.

### Examiner's Amendment

· The application has been amended as follows:

Please replace the prior claim listings with the following listing of claims:

- (Canceled)
- (Currently Amended) An IP address setting system, comprising:

a plurality of nodes of a network;

an IP address setting device; and

a router, the plurality of nodes and the IP address setting device communicating via the router, wherein each node of the plurality of nodes has a storing unit that prestores a particular multicast address; address prior to being included as a node on the network, each node providing notification that the node is a member of the particular multicast address prestored in the storing unit;

wherein the IP address setting device comprises:

a request packet transmitting unit that transmits a request packet to the particular multicast address prestored in the storing unit of each node, the request packet requesting transmission of MAC addresses from the nodes of the network.

wherein the each node has a response transmitting unit that transmits, in response to the request packet, a response to a multicast address, to which the IP address setting device has joined, each response including the MAC address of the each node; and

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wherein the IP address setting device further comprises:

a response reception unit that receives responses from the nodes to the request packet transmitted by the request packet transmitting unit;

an address information designation unit (1) that, based on the responses received from the nodes by the response reception unit, designates one node, which has not yet been set with correct-address information address information that is required for the one node to communicate with the plurality of nodes in the network, to be set with address information including an IP address and (2) that designates the address information,

wherein the address information designation unit includes:

a display that displays a list of nodes that transmitted responses;

a selection unit that enables a user to designate the one node to be set with

address information from the list; and

an address information setting unit that designates the address information for the one node: and

a setting packet transmission unit that transmits a setting packet to the particular multicast address, the setting packet including the address information set by the address information designation unit and the MAC address included in the response of the one node.

3-6. (Canceled)

(Currently Amended) An IP address setting method comprising:

notifying, from a plurality of nodes of a network, that each of the plurality of nodes of a network is a member of a particular multicast address, each node of the

<u>plurality of nodes</u> having a storing unit that is prestored with the particular multicast <del>address;</del> <u>address</u> <u>prior to being included as a node on the network:</u>

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transmitting a request packet from an IP address setting device to the particular multicast address prestored in the storing unit of each node, the request packet including a request for a MAC address from the nodes of the network:

transmitting in response to the request packet, a response from the each node to a multicast address, to which the IP address setting device has joined, the response including the MAC address of the corresponding node;

receiving, at the IP address setting device, the responses from the nodes to the request packet; displaying, at the IP address setting device, a list of nodes that transmitted responses;

determining, at the IP address setting device, selection of one node, which has not yet been set with correct address information address information that is required for the one node to communicate with the plurality of nodes in the network, to be set with address information, designated by a user from the list;

designating, at the IP address setting device, the address information, including the IP address, for the one node; and

transmitting, from the IP address setting device to the particular multicast address, a setting packet including the address information and the MAC address included in the response from the one node, the request packet and the setting packet being transmitted from the IP address setting device via a router to the particular multicast address of the nodes.

8-17. (Canceled)

18. (Currently Canceled)

(Currently Canceled)

(Previously Presented) The IP address setting system according to claim 2, wherein the address
information further includes a default gateway and a subnet mask.

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(Previously Presented) The IP address setting method according to claim 7, wherein the address
information further includes a default gateway and a subnet mask.

### Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

None of the prior art of record, neither singularly nor in combination, teach a system wherein each node of the plurality of nodes has a storing unit that prestores a particular multicast address prior to being included as a node on the network, each node providing notification that the node is a member of the particular multicast address prestored in the storing unit; wherein the IP address setting device comprises :a request packet transmitting unit that transmits a request packet to the particular multicast address prestored in the storing unit of each node, the request packet requesting transmission of MAC addresses from the nodes of the network, wherein the each node has a response transmitting unit that transmits, in response to the request packet, a response to a multicast address, to which the IP address setting device has joined, each response including the MAC address of the each node; and wherein the IP address setting device further comprises: a response reception unit that receives responses from the nodes to the request packet transmitted by the request packet transmitting unit; an address information designation unit (1) that, based on the responses received from the nodes by the response reception unit, designates one node, which has not yet been set with address information that is required for the one node to communicate with the plurality of nodes in the network, to be set with address information including an IP address and (2) that designates the address information, wherein the address information designation unit includes: a display that displays a list of nodes that transmitted responses; a selection unit that enables a user to designate the one node to be set with address information from the list; and an address information setting unit that designates the address information for the one node; and a setting packet transmission unit that transmits a setting packet to the particular multicast address, the setting packet including the address information set by the address information designation unit and the MAC address included in the response of the one node, as shown in claim 2.

Claim 7 contains similar limitations as claim 2 and therefore is allowed for similar reasons.

Claims 20 and 21 depend from claims 2 and 7 and therefore are allowed for similar reasons.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramsey Refai whose telephone number is (571)272-3975. The examiner can normally be reached on M-F 8:30 - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ryan Zeender can be reached on (571) 272-6790. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ramsey Refai March 28, 2008 /R. R./ Art Unit 3627

/F. Ryan Zeender/ Supervisory Patent Examiner, Art Unit 3627